Page 1 of 16 Serial No. Atty. Docket No. U.S. Department of Commerce 09/709,103 Form PTO-1449 60388-A-PCT-Patent and Trademark Office US/JPW/GJG/JBC INFORMATION DISCLOSURE CITATION Applicants: Mary Cismowski and Emir Duzic (Use several sheets if necessary) Group Filing Date November 8, 2000 U.S. PATENT DOCUMENTS Filing Date Subclass Class f Appropriate Date Document Number Examiner Initial MacKay et al. 9/23/86 (Exhibit 1); Leder et al. 4/12/88 (Exhibit 2); Evans et al. 9/26/89 (Exhibit 3); Wagner et al. 10/10/89 8 (Exhibit 4): Meade et al. 10/10/89 8 (Exhibit 5); Cech et al. 1/22/91 8 (Exhibit 6); Ladner et al. 3/17/92 5 (Exhibit 7); Cech et al. 5/26/92 b 5 (Exhibit 8); Ladner et al. 6/29/93 (Exhibit 9); McCoy et al. 12/14/93 (Exhibit 10); Saifer et al. 2/1/94 (Exhibit 11): 1/9/96 King et al. b (Exhibit 12); FOREIGN PATENT DOCUMENTS Translation Subclass Class Country Date Document Number Yes No PCT (Exhibit 13); 10/4/90 wo PCT (Exhibit 14); 2/7/91 WQ PCT (Exhibit 15); 3/4/93 WO 5/11/94 PCT (Exhibit 16): OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) DATE CONSIDERED EXAMINER 11/02 *EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Page 10 of 16 Serial No. Atty. Docket No. U.S. Department of Commerce Form PTO-1449 60388-A-PCT-09/709.103 Patent and Trademark Office US/JPW/GJG/JBC INFORMATION DISCLOSURE CITATION Applicants: Mary Cismowski and EmirDuzic (Use several sheets if necessary) Filing Date Group November 8, 2000 U.S. PATENT DOCUMENTS Date Class Subclass Filing Date Document Number (Appropriate Initial FOREIGN PATENT DOCUMENTS Translation Class Subclass Date Country Document Number Yes No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Luckow and Summers, (1989) "High Level Expression of Nonfused Foreign Genes with Autographa californica Nuclear Polyhedrosis Virus Expression Vectors", Virology 170:31-39 (Exhibit 75); Madura et al., (1993) "N-recognin/Ubc2 Interactions in the Nend Rule Pathway", The Journal of Biological Chemistry 268:12046-12054 (Exhibit 76); Magee and Newman, (1992) "The Role of Lipid Anchors for Small G Proteins in Membrane Trafficking", <u>Trends in Cell Biology</u> 2: 318-323 (Exhibit 77); Maher, L.J., (1992) "DNA Triple-Helix Formation: An Approach to Artificial Gene Repressors?", <u>BioEssays</u> 14(12):807-815 (Exhibit 78); Marks et al., (1992) "Molecular Evolution of Proteins on Filamentous Phage", The Journal of Biological Chemistry 267: 16007-16010 (Exhibit 79); Marra et al., (1998) "The WashU-HHMI Mouse EST Project", EMEST 3: Gen Bank Accession No. AA790463, (Exhibit 80); Neer, E. J., (1995) "Heterotrimeric G Proteins: Organizers of Transmembrane Signals", Cell 80:249-257 (Exhibit 81); DATE CONSIDERED 2/11/83 which

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